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(71)Applicant : CATALINA COATINGS INC

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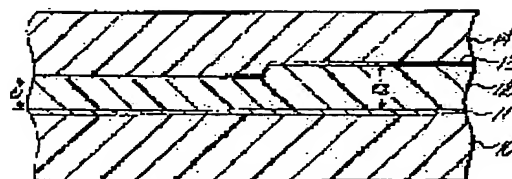
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(54) MULTICOLOR INTERFERENCE COATING

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a multicolor interference filter having an integration type acrylate polymer film by coagulating a specific acrylate monomer, forming a polymer film by polymerizing this acrylate and applying a reflective coating.

SOLUTION: A reflective interference filter is deposited on a sheet substrate 10 having a smooth surface. An opaque and reflective thin metal layer 11 is coated on the substrate. A thin layer 12 of a transparent dielectric material is coated on the reflective layer. The predetermined area of the dielectric material layer is formed with a thickness of t_1 , which is different from the thickness t_2 of the adjacent area. The next layer in the interference filter is a metal layer 13 having a sufficient thickness to be semitransparent. After forming an interference film having two reflective metal layers located apart by the transparent dielectric material, the thin film is protected by a deposited upper layer 14. The acrylate layer forming the dielectric material 12 of the filter is deposited preferably in a form of acrylate monomer having a ratio of molecular weight of 150-400 to acrylate group evaporated.



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MULTICOLOR INTERFERENCE COATING (English)

REVETEMENT FILTRANT MULTICOLORE (French)

Patent Assignee: CATALINA COATINGS INC (US)

Author (Inventor): SHAW DAVID G (US); CLINE DANIEL S (US); DAWSON ERIC P
(US); LANGLOIS MARC (US)

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***** CANADA (CA) *****

CANADA (CA) PATENT(S):